



# **US LHC Accelerator Research Program** ***brookhaven - fermilab - berkeley***

## LARP Hardware Commissioning Summary

18 September 2003



# Hardware Commissioning Summary I

Ranko gave an outline of the hardware commissioning program at CERN

- Overview of Hardware Commissioning Organization at CERN
- USLHC has a different standing than other equipment contributors. For the USLHC arrangement, we sign off ownership of components upon CERN acceptance. Thus our participation needs to be (re)defined!
- The Hardware Commissioning Working group already has started plans for commissioning IR's.... Presentations to HCWG meetings should be the starting point for our discussions..
- CERN is confident that they will be able to commission IR's without our direct participation... but would definitely welcome our participation.
- For commissioning purposes, CERN would like access to certain data outside of that provided and required for acceptance. Data include cooldown characteristics, quench protection parameters...



## Hardware Commissioning Summary II

Presentations were made from all three US labs. All are interested in participating in overseeing the installation and commissioning. FY05 and FY06 will be the biggest years for this program

- FY04 efforts

- "fit up" of TAS absorber for CMS "fit up" of inner triplet (maybe FY05)
- planning for FY05 including mechanism for "resident" LARP person at CERN
- definition/agreement with CERN about commissioning participation

- FY05 effort

- installation and commissioning of sector 7-8....this will involve deliverables from all three labs
- the commissioning of the DFBX will be key to the overall inner triplet commissioning all signals, power & cryogenics go through it. components have been tested but the box will not be fully tested until it is installed
- we could make a significant contribution to the IR cryogenic commissioning



# Hardware Commissioning Summary III

## Outstanding issues

- How do we interact with CERN? Need to define our role. This will be discussed in November at CERN
- How do go about establishing resident LARP at CERN? We discussed the needed attributes of this person. (global familiarity with USLHC... minimum reasonable stay at CERN...) We should make a short list by November.
- There should be a fully developed plan for FY05 by February.